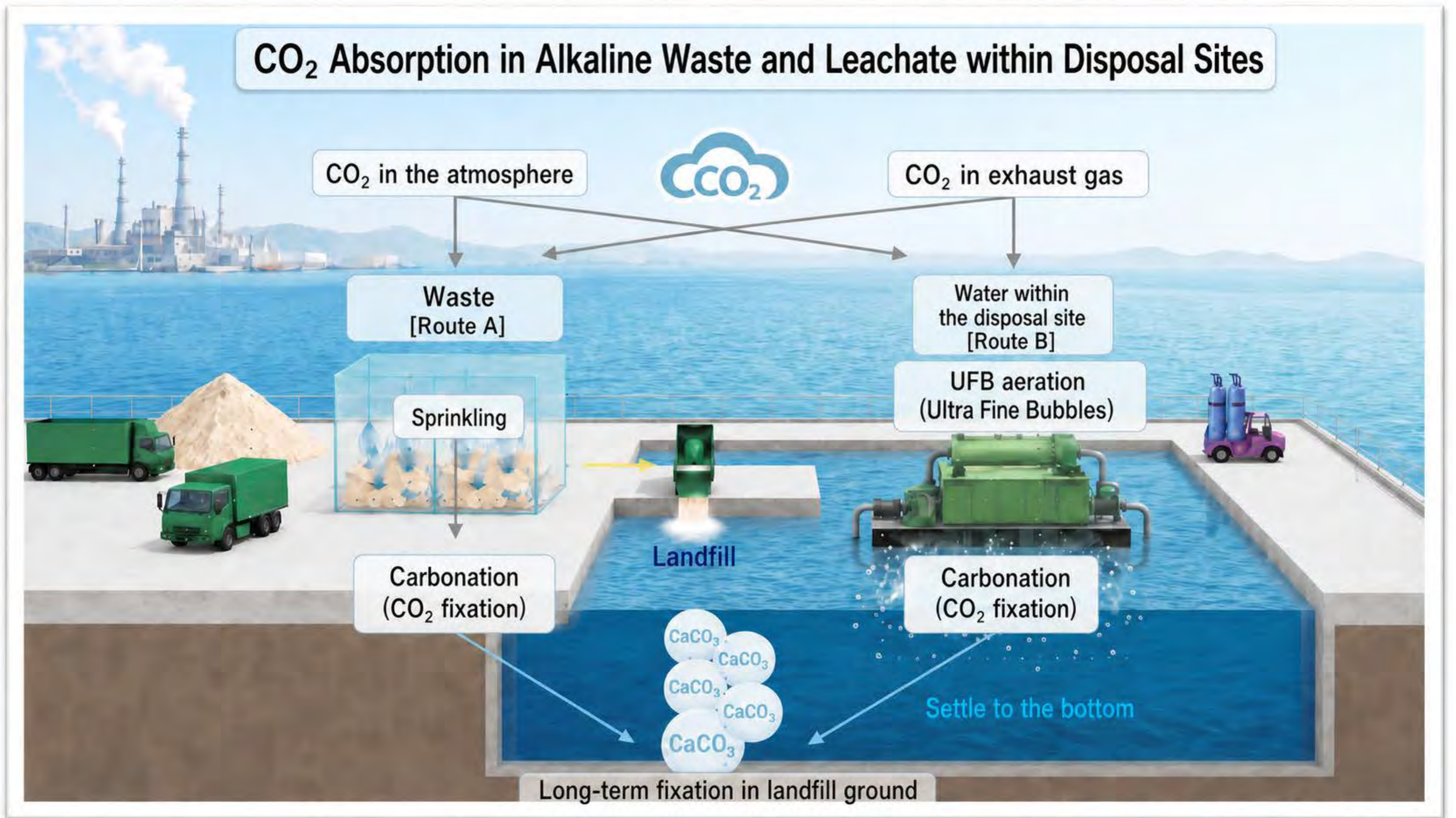


# CO<sub>2</sub> fixation at Sea Surface Disposal Sites



## Role of Resources

**Exhaust Gas and Atmospheric CO<sub>2</sub>**  
Gases Contributing to Global Warming

**Incineration Ash (Alkaline Waste)**  
Alkaline Particles Rich in Calcium Oxide (CaO)

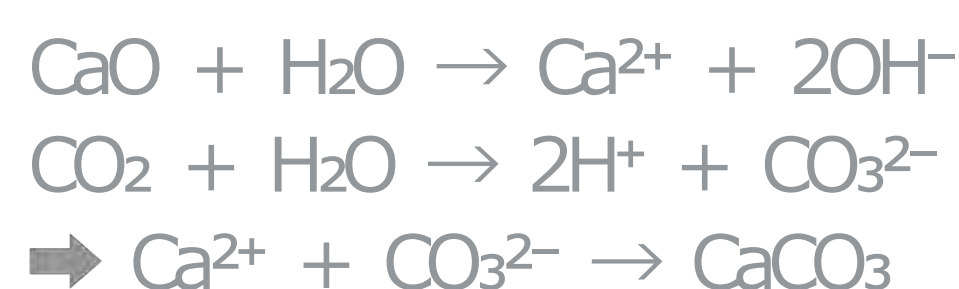
**Landfill Leachate**  
Calcium-Enriched Alkaline Water Leached from Waste

## Fixing Routes

**[Route A] Sprinkling Treatment** 1,000 t-CO<sub>2</sub>/yr\*  
CO<sub>2</sub> Reaction Process Using Wet Calcium-Containing Waste

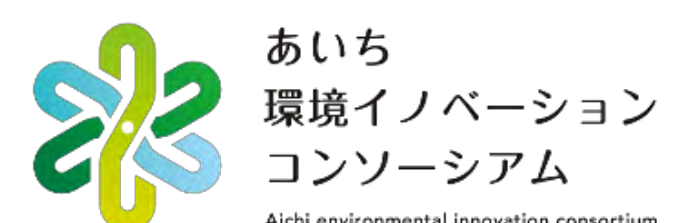
**[Route B] UFB Aeration treatment** 5~10 t-CO<sub>2</sub>/ha/yr\*  
A method for CO<sub>2</sub> reaction with calcium-rich water

### [ Carbonation Mechanism ]



\*Potential estimated based on actual results

Sep. 2024 – Selected for Aichi Environmental Innovation Project  
(Carbon Recycling Model via Greenhouse Gas Absorption and Utilization)



Technology introduction  
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